

Docket No.: 12810-00159-US1  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Alexandra Brand et al.

Application No.: Not Yet Assigned

Confirmation No.: N/A

Filed: Concurrently Herewith

Art Unit: N/A

For: CATALYST FOR THE PRODUCTION OF  
METHYL MERCAPTAN FROM  
METHANOL AND HYDROGEN SULFIDE

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

A summary/abstract translation of Citations BB, BC, BD and BF are enclosed.

Citation AA is an English language counterpart of Citation BE.

Citation BA is discussed at page 2, lines 1-5 of the specification. Citation BE is discussed at page 2, lines 15-19 of the specification. Citations BB, BC, BD and BF are discussed at page 2, lines 28-32 of the specification.

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Applicant has not submitted copies of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark Office has waived this requirement for all U.S. patent applications. Applicant submits herewith copies of foreign and non-patents in accordance with 37 CFR 1.98(a)(2).

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0185, under Order No. 12810-00159-US1.

Dated:

Respectfully submitted,

By 

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|---|---|----|--------------------------|----------------------------|-----------------|
| Substitute for form 1449A/B/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |   |    | <b>Complete if Known</b> |                            |                 |
|   |   |    | Application Number       | Not Yet Assigned 10/554701 |                 |
|   |   |    | Filing Date              | Concurrently Herewith      |                 |
|   |   |    | First Named Inventor     | Alexandra Brand            |                 |
|   |   |    | Art Unit                 | N/A                        |                 |
|   |   |    | Examiner Name            | Not Yet Assigned           |                 |
| Sheet   | 1 | of | 1                        | Attorney Docket Number     | 12810-00159-US1 |

| U.S. PATENT DOCUMENTS |                          |  |                                |  |   |
|-----------------------|--------------------------|--|--------------------------------|--|---|
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                       |                          | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
|                       | AA*                      | US-5,977,011                             | 11-02-1999                     | Sauer et al.                                       |   |
|                       | AB*                      | US-5,852,219                             | 12-22-1998                     | Sauer et al.                                       |   |
|                       | AC*                      | US-5,874,630                             | 02-23-1999                     | Cook et al.  |   |
|                       | AD*                      | US-2,647,151                             | 07-28-1953                     | Bell   |   |
|                       | AE*                      | US-3,935,276                             | 01-27-1976                     | Biola et al.                                       |   |
|                       | AF*                      | US-2,685,605                             | 08-03-1954                     | Bell   |   |
|                       | AG*                      | US-5,847,223                             | 12-08-1998                     | Ponceblanc et al.                                  |   |

| FOREIGN PATENT DOCUMENTS |                          |   |                                   |  |   |                |
|--------------------------|--------------------------|---|-----------------------------------|--|---|----------------|
| Examiner<br>Initials*    | Cite<br>No. <sup>1</sup> | Foreign Patent Document   | Publication<br>Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | T <sup>3</sup> |
|                          |                          | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                   |  |   |                |
|                          | BA                       | DE-101 37 773-A1  | 02-13-2003                        | BASF AG  |   |                |
|                          | BB                       | SU-1 316 127-A1   | 10-20-1996                        | Mashkina et al.                                    |   | ✓              |
|                          | BC                       | SU-1 608 923-A1   | 11-10-1996                        | Kladova et al.                                     |   | ✓              |
|                          | BD                       | RU-2 056 940-C1   | 03-27-1996                        | Kladova et al.                                     |   | ✓              |
|                          | BE                       | EP-0 832 878-A2   | 04-01-1998                        | Degussa Aktiengesellschaft                         |   |                |
|                          | BF                       | WO-99/14172-A2  | 03-25-1999                        | Mashkina et al.                                    |   | ✓              |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS |                          |   |                |
|---------------------------------|--------------------------|---|----------------|
| Examiner<br>Initials            | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                 | CA                       | "Effect of Acid-Base Properties of Catalysts on their Activity in Methymercaptane Synthesis" by Mashkina et al., <i>React. Kinet. Catal. Lett.</i> , Vol. 34, No. 2, 1987, pages 407-412.   |                |
|                                 | CB                       | "Activity of Tungstate Catalysts in the Synthesis of Methyl-Mercaptane from Methanol and Hydrogen Sulfide" by Mashkina et al., <i>React. Kinet. Catal. Lett.</i> , Vol. 36, No. 1, 1988, pages 159-164.   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|